(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



E SERVE ENNOTED IN DERING BEING B

(43) International Publication Date 4 November 2004 (04.11.2004)

PCT

(10) International Publication Number WO 2004/094766 A3

(51) International Patent Classification⁷: E21B 23/01

(21) International Application Number:

PCT/US2004/011973

(22) International Filing Date: 15 April 2004 (15.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/463,586

17 April 2003 (17.04.2003) US

(71) Applicant (for all designated States except US): ENVENTURE GLOBAL TECHNOLOGY [US/US]; 16200 A. Park Row, Houston, TX 77084 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BRISCO, David, Paul [US/US]; 405 Westridge Drive, Duncan, OK 73533 (US). WATSON, Brock, Wayne [US/US]; 2535 Marsh Lane #1004. Carrollton, TX 75006 (US). TREECE, Harold [US/US]; 213 Ridgecrest Drive, Duncan, OK 73533 (US).

(74) Agent: MATTINGLY, Todd: Haynes and Boone, LLP, 901 Main Street, Suite 3100, Dallas, TX 75202 (US).

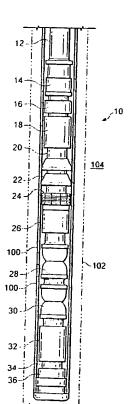
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, H, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: APPARATUS FOR RADIALLY EXPANDING AND PLASTICALLY DEFORMING A TUBULAR MEMBER

(57) Abstract: An apparatus for radially expanding and plastically deforming a tubular (100).



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/11973

A. CL	ASSIFICATION OF SUBJECT MATTER		170304/11973	
IPC(7)	: E21B 23/01			
US CL	: 166/298, 55.7			
According	to International Patent Classification (IPC) or to both	national classification and IPC		
D. FIE.	LDS SEARCHED			
Minimum d U.S. :	documentation searched (classification system follow 166/298, 55.755, 55.6, 297; 405/184.3	ed by classification symbols)		
Documental	tion searched other than minimum documentation to	the extent that such documents	are included in th	ne fields searched
Electronic d EAST	ata base consulted during the international search (n	ame of data base and, where pra	cticable, search t	erms used)
C. DOC	CUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, when	c appropriate of the salarest		
Χ	US 5,306,101 A (Rockower et al.) 26 April 1994	(26.04.1994), see entire doorma	ssages	Relevant to claim No.
**			J	1, 13, 26 and 41
Х				50, 59-67,.70 and 72
P,X	JS 6,598,678 B1 (Simpson et al.) 29 July 2003 (29.07.2003), see entire document.			1-75
	·.			
Further	documents are listed in the continuation of Box C.	See patent family a	nnev	
• Sp	pecial categories of cited documents:	"T" later document publishe	d after the internation	al filing date or priority
'A" document o particular r	defining the general state of the art which is not considered to be of relevance	date and not in conflict principle or theory unde	WILL the anniversion b	ut cited to understand the
	lication or patent published on or after the international filing date	"X" document of particular a considered novel or can	not be considered to it	invention cannot be
'L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance: the change invention		
	eferring to an oral disclosure, use, exhibition or other means	considered to involve an with one or more other s obvious to a person skill	uch documents such	he dominion in a little to the
priority date		"&" document member of the		
ate of the acti	ual completion of the international search	Date of mailing of the internal	tional cos-sh-	
8 August 2005 (18.08.2005)		27 SEP	2011 Search repo	ort
lame and mailing address of the ISA/US			£00,/	
Mail Stop PCT, Attn: ISA/US		Authorized officer	A 1.	
Commissioner for Patents P.O. Box 1450		David Bagnell Www	coper	Ì
Alexar	ndria, Virginia 22313-1450	Telephone No. 571-272-3600	U	
icsimile No. (703) 305-3230	1 1107 571-272-3000	-	
m PCT/ISA/2	10 (second sheet) (January 2004)			